Read grids and translate

Stage 04 | Select & Adapt | 8 mixed items

Stage 04: Translate a whole figure

Select & Adapt

Show your working or construction on paper. State units where asked. For questions 7 and 8, explain your method. Numerical entries may be rounded to 2 decimal places.

Name: _____ Date: _____

Work on separate paper. Plot and label figures; retain compass arcs. Give a reason for items 7 and 8.

1. Triangle A(1, 3), B(3, 3), C(1, 4) moves by (2, 0). State C'; draw all three images on paper.

2. Triangle A(2, 4), B(4, 4), C(2, 5) moves by (-3, 1). State C'; draw all three images on paper.

3. Triangle A(-3, 2), B(-1, 2), C(-3, 3) moves by (2, -1). State C'; draw all three images on paper.

4. Triangle A(-2, 3), B(0, 3), C(-2, 4) moves by (-3, 0). State C'; draw all three images on paper.

5. Translate P(-1, 4) by vector (2, 1). State P' as (x, y).

6. Translate P(0, 2) by vector (-3, -1). State P' as (x, y).

7. Diagnose an error. Triangle A(1, 3), B(3, 3), C(1, 4) moves by (2, 0). State C'; draw all three images on paper. A learner answers “(4, 3)”. Give the correct answer and identify why the proposed answer fails.

8. Explain your choice. Triangle A(2, 4), B(4, 4), C(2, 5) moves by (-3, 1). State C'; draw all three images on paper.

Self-check after attempting: use the separate answer key on the skill page. Correct reasoning and a valid drawing matter as well as the final answer.

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